

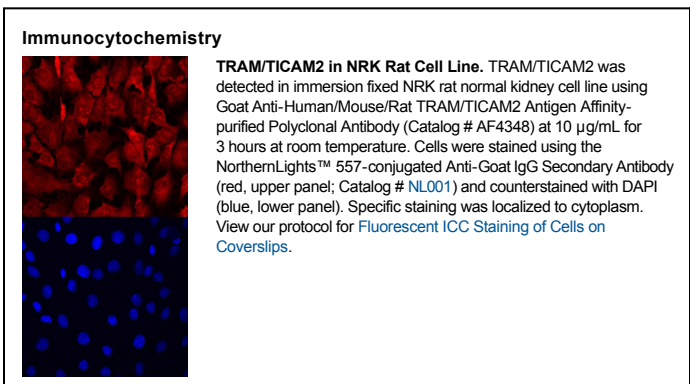
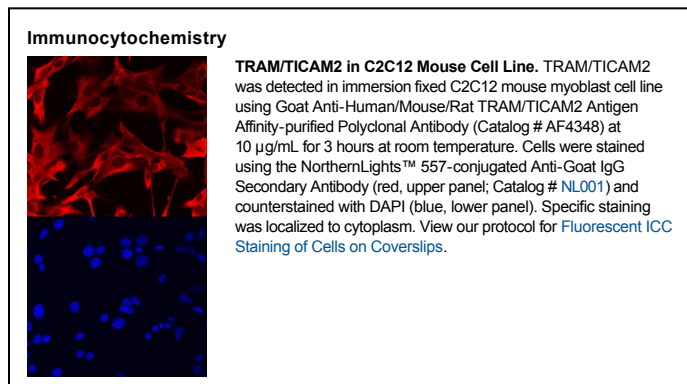
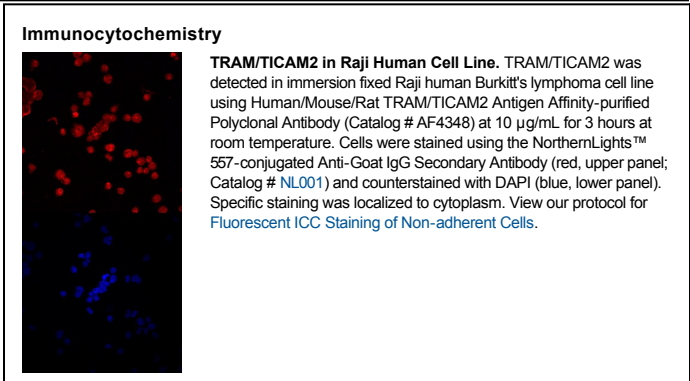
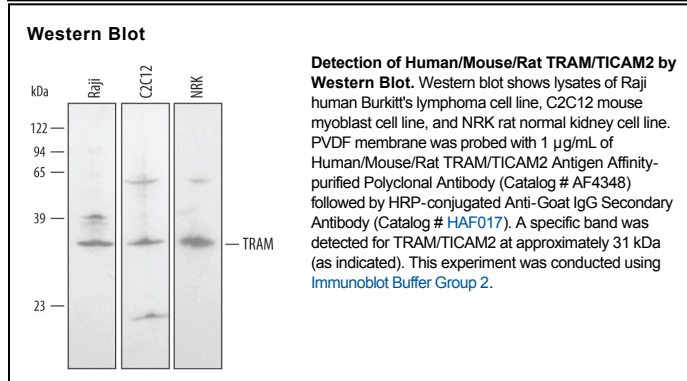
DESCRIPTION	
Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat TRAM/TICAM2 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse TRAM/TICAM2 Met1-Ala232 Accession # Q8BJQ4
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

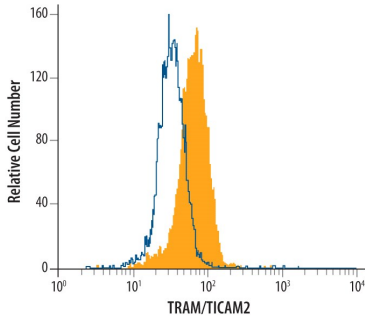
Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below
Intracellular Staining by Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

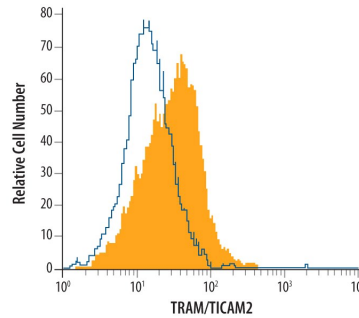


Intracellular Staining by Flow Cytometry



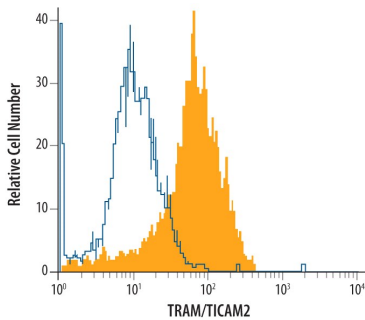
Detection of TRAM/TICAM2 in Raji Human Cell Line by Flow Cytometry. Raji human Burkitt's lymphoma cell line was stained with Human/Mouse/Rat TRAM/TICAM2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4348, filled histogram) or isotype control antibody (Catalog # AB-108-C, open histogram), followed by Phycoerythrin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0107). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

Intracellular Staining by Flow Cytometry



Detection of TRAM/TICAM2 in C2C12 Mouse Cell Line by Flow Cytometry. C2C12 mouse myoblast cell line was stained with Goat Anti-Human/Mouse/Rat TRAM/TICAM2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4348, filled histogram) or control antibody (Catalog # AB-108-C, open histogram), followed by Allophycocyanin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0108). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

Intracellular Staining by Flow Cytometry



Detection of TRAM/TICAM2 in NRK Rat Cell Line by Flow Cytometry. NRK rat normal kidney cell line was stained with Goat Anti-Human/Mouse/Rat TRAM/TICAM2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4348, filled histogram) or control antibody (Catalog # AB-108-C, open histogram), followed by Allophycocyanin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0108). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

The innate and adaptive immune responses depend on systems that link cell surface surveillance receptor signals to cytoplasmic proteins such as kinases, adaptors, and transcription factors. Toll-like receptors (TLR) recognize different pathogen associated molecular patterns (PAMPs), and initiate a signaling cascades mediated by a Toll/interleukin-1 receptor (TIR) domain-containing adaptor proteins such as MyD88, TIRAP/MAL, and TRIF. Mouse TRIF-related adaptor molecule (TRAM), is a 232 amino acid, 26 kDa (predicted), ubiquitously expressed member of the TIR domain-containing adaptor family. TRAM, also known as TIR domain-containing adapter protein 2 (TICAM2) and TIR domain-containing protein (TIRP), contains a central Toll/interleukin-1 receptor (TIR) domain that is most similar to that of TRIF. TRAM plays an essential role in the MyD88-independent signaling of TLR4 by binding members of the IRAK family, ultimately leading to the activation of NFκB. Mouse TRAM shares 75% and 77% identity to human and rat TRAM, respectively.